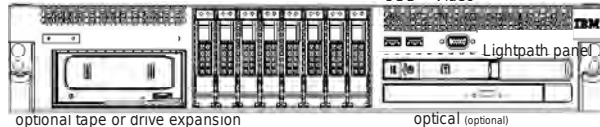


| IBM® Type-model | Qty x Processor/Core | L3 cache | Memory | Disk | Disk controller | Optical | Power Supply | Disk bays | Slots x bays | Ethernet | Available date |
|--------------------|----------------------------|-------------|--------|-----------|--------------------|---------|-----------------|--------------|-----------------|----------|-------------------|
| 7945-A2x | 1 x Xeon® E5506 2.13GHz/4C | 4MB | 1x4GB | 2.5" Open | SAS/SATA | open | 1 x 675W | 4 hot-swap | 4x5 | 2 x Gb | Mar 2010 |
| 7945-B2x | 1 x Xeon E5507 2.26GHz/4C | 4MB | 1x4GB | 2.5" Open | SAS/SATA | open | 1 x 675W | 8 hot-swap | 4x9 | 2 x Gb | Mar 2010 |
| 7945-C2x | 1 x Xeon L5630 2.13GHz/4C | 12MB | 1x4GB | 2.5" Open | SAS/SATA | open | 1 x 675W | 8 hot-swap | 4x9 | 2 x Gb | Mar 2010 |
| 7945-D2x | 1 x Xeon E5620 2.40GHz/4C | 12MB | 1x4GB | 2.5" Open | SAS/SATA | open | 1 x 675W | 8 hot-swap | 4x9 | 2 x Gb | Mar 2010 |
| 7945-F2x | 2 x Xeon E5630 2.53GHz/4C | 12MB | 2x4GB | 2.5" Open | SAS/SATA | open | 2 x 675W | 8 hot-swap | 4x9 | 2 x Gb | Mar 2010 |
| 7945-G2x | 1 x Xeon E5640 2.66GHz/4C | 12MB | 1x4GB | 2.5" Open | SAS/SATA | open | 1 x 675W | 8 hot-swap | 4x9 | 2 x Gb | Mar 2010 |
| 7945-H2x | 1 x Xeon L5640 2.26GHz/6C | 12MB | 1x4GB | 2.5" Open | SAS/SATA | open | 1 x 675W | 8 hot-swap | 4x9 | 2 x Gb | Mar 2010 |
| 7945-I2x | 1 x Xeon X5650 2.66GHz/6C | 12MB | 3x4GB | 2.5" Open | SAS/SATA | open | 1 x 675W | 8 hot-swap | 4x9 | 2 x Gb | Mar 2010 |
| 7945-L2x | 1 x Xeon X5660 2.80GHz/6C | 12MB | 3x4GB | 2.5" Open | SAS/SATA | open | 1 x 675W | 8 hot-swap | 4x9 | 2 x Gb | Mar 2010 |
| 7945-M2x | 1 x Xeon X5670 2.93GHz/6C | 12MB | 3x4GB | 2.5" Open | SAS/SATA | open | 1 x 675W | 8 hot-swap | 4x9 | 2 x Gb | Mar 2010 |
| 7945-N2x | 1 x Xeon X5680 3.33GHz/6C | 12MB | 3x4GB | 2.5" Open | SAS/SATA | open | 1 x 675W | 8 hot-swap | 4x9 | 2 x Gb | Mar 2010 |

| | | | | | | | | | | | |
|---------------------------------|---|--|--|--|--|--|--|--|--|--|--|
| Positioning Processor(s) | Flagship business critical server to significantly lower Total Cost of Ownership packed with IBM innovation Up to two Next Generation Intel® Xeon processors featuring Quick Path Interconnect (QPI) technology at up to 3.33GHz with up to 12MB L3 / up to 6 Core / with Intel Turbo Boost Technology and Hyper-Threading | | | | | | | | | | |
| L3 cache | 4 or 12MB std and max / at processor speed | | | | | | | | | | |
| SMP | 2-way SMP / up to two Xeon Processors (same speed/cache size) | | | | | | | | | | |
| Implementation | Systemboard contains two Socket B (LGA1366) sockets, eighteen DIMM slots, four PCI-E slots, integrated SAS, ethernet and graphics controllers | | | | | | | | | | |
| Memory | 4, 8 or 12GB std / 96GB max per processor(using 16GB DIMMs) / PC3-10600 1333MHz LP 240-pin Registered ECC DDR3 SDRAM DIMMs (or up to 12 DIMMS / 24GB of UDIMM) / eighteen slots on systemboard / nine DIMMS per processor / ChipKill / memory mirroring / Supports two DIMMs per channel at 1333MHz for L5640 and X5600 series processors | | | | | | | | | | |
| Disk Controller | IBM ServeRAID BR10i v2 SAS/SATA controller / A2x / on riser card / PCI-Express / supports RAID-0/1/1E / IBM ServeRAID M1015 SAS/SATA controller / B2x, C2x, D2x, H2x, N2x / on riser card / PCI-Express / supports RAID-0/1/10 / IBM ServeRAID M5014 SAS/SATA controller / F2x, G2x / on riser card / PCI-Express / supports RAID-0/1/10/5/50 / IBM ServeRAID M5015 with battery / J2x, L2x, M2x / on riser card / PCI-Express / supports RAID-0/1/10/5/50 / SATA controller for optional optical integrated into ICH10 | | | | | | | | | | |
| Disk bays | Eight 2.5-inch Small Form Factor (SFF) hot swap disk bays std / optional expansion to sixteen SFF hot swap disk bays / supports SAS, SATA or SSD SFF HS disks , allow mixing different drives | | | | | | | | | | |
| Flash Storage | USB standard slot on SAS riser card for optional Hypervisor USB key | | | | | | | | | | |
| Tape backup | Optional internal and external / 3.5" / USB or SATA connected via SAS riser card | | | | | | | | | | |
| Mechanical Architecture/Chipset | EIA 19" Rack (2U⁴) / rack-mount only / supported in IBM NetBAY™ Rack products / no rack to tower conversion Intel 5520 Chipset / Intel I/O Hub provides PCI-E express slots and links to BCM5709C, enterprise south bridge interface to ICH10 South Bridge / ICH10 South Bridge provides: USB, SATA, PCI-Express links to SAS/SATA controller and LPC bus to VSC452 for video and limited Super I/O (See below) Four second-generation PCI-Express x8 slots / convertible via riser(s) to two PCI-E x16 or four 64-bit 133MHz PCI-X | | | | | | | | | | |
| BUS slots | | | | | | | | | | | |
| Ethernet | Two Gigabit Ethernet ports / Broadcom® 5709C / two full gigabit ethernet MAC, and PHY layer functions / integrated / PCI-Express / full duplex / TCP/IP Offload Engine (TOE) / Wake on LAN® / Serial over LAN / PXE 2.0 / Failover, adapter fault tolerance / Load balancing / upgradeable to four Ethernet ports with additional Broadcom 5709 daughter card | | | | | | | | | | |
| Optical / diskette | Optional optical / USB only | | | | | | | | | | |
| Front & Rear ports | Front: two USB (Vers 2.0), graphics (DB-15) Rear: two USB (Vers 2.0), serial (9-pin), graphics (DB-15), two ethernet (RJ-45), one RJ-45 (sys mgmt) / no parallel port | | | | | | | | | | |
| Graphics | SVGA / Matrox G200eV integrated in IMM on systemboard / 16MB DDR2-250MHz SDRAM std/max | | | | | | | | | | |
| Systems Mgmt | Integrated Management Module (IMM) / VSC452 / WPCT201BA0WG / integrated / provides system and environmental monitoring, event recording, alert capability / TPM 1.2 / ASR / SOL / IPMI 2.0 / SMASH / upgradeable to Remote Presence, blue screen capture via optional IBM Virtual Media Key | | | | | | | | | | |
| Diagnostics | Light Path Diagnostics™ (LED lights indicate failing component) and on-board diagnostics | | | | | | | | | | |
| Security | Power-on password / administrator password / unattended boot / selectable boot / unattended start mode | | | | | | | | | | |
| Publications | Installation Guide and Documentation CD | | | | | | | | | | |
| Keyboard / mouse | None standard (because rack-based) / USB only | | | | | | | | | | |
| Power supply(s) | Std/Max: one/two 675 watt hot-swap / rear access / auto restart / redundant with two power supplies / auto-sensing | | | | | | | | | | |
| Cooling | Calibrated Vectored Cooling™ Std/Max: three / hot-swap | | | | | | | | | | |

2U Rack with 2.5" HS SAS

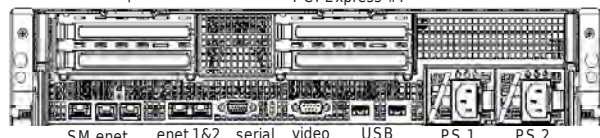
- 8 x 2.5" HS Disk
- USB
- Video



optional tape or drive expansion

optical (optional)

- PCI-Express #1
- PCI-Express #2
- PCI-Express #3
- PCI-Express #4



- Slot 1: PCI-Express x8, full length, full height
- Slot 2: PCI-Express x8, low profile adapter with full height bracket
- Slot 3: PCI-Express x8, full length, full height
- Slot 4: PCI-Express x8, half length, full height
- **can be converted to from 4 x8 slots 2 x16 slots via optional riser

Max internal disk capacity:
2.5: SAS models: 4TB² with eight 500GB SFF disks(std)
2.5: SAS models: 8TB² with sixteen 500GB SFF disks(opt)

- Quick release adapter slots (no screws)
- Configuration/Setup Utility: F1 at startup
- Diagnostics (preboot DSA): F2 at startup
- Network Boot: F12 at startup
- Front indicators LEDs: Power-on LED, HDD activity LED, locator LED, system information LED, and system-error LED
- Predictive failure analysis on disk options, memory, power supplies, and fans in conjunction with IBM Director can alert the system administrator of an imminent component failure
- Rack: H 3.36" x W 17.5" x D 27.5" (H 85.4mm x W 443.6mm x D 698mm)
- 46.5 to 55 pounds
- Stealth black color

LIMITED WARRANTY³

- 3 year parts and labor
- International Warranty Service³
- On site, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time⁷
- 3 year on site warranty service upgrade options (in eligible locations):⁷
 - 9 hr coverage, Mon-Fri excluding holidays, 4 hr response time (ServicePac² 21P2077)
 - 24 hr x 7 day coverage, 4 hour average response time (ServicePac 21P2078)
 - 24 hr x 7 day coverage, 2 hour average response time (ServicePac 21P293)
- Other ServicePac options at <http://www.ibm.com/services/us/its/pdf/wamomxeu.pdf>
- 24x7¹⁴ toll-free support for warranty issues during the warranty period³